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FIG. 1

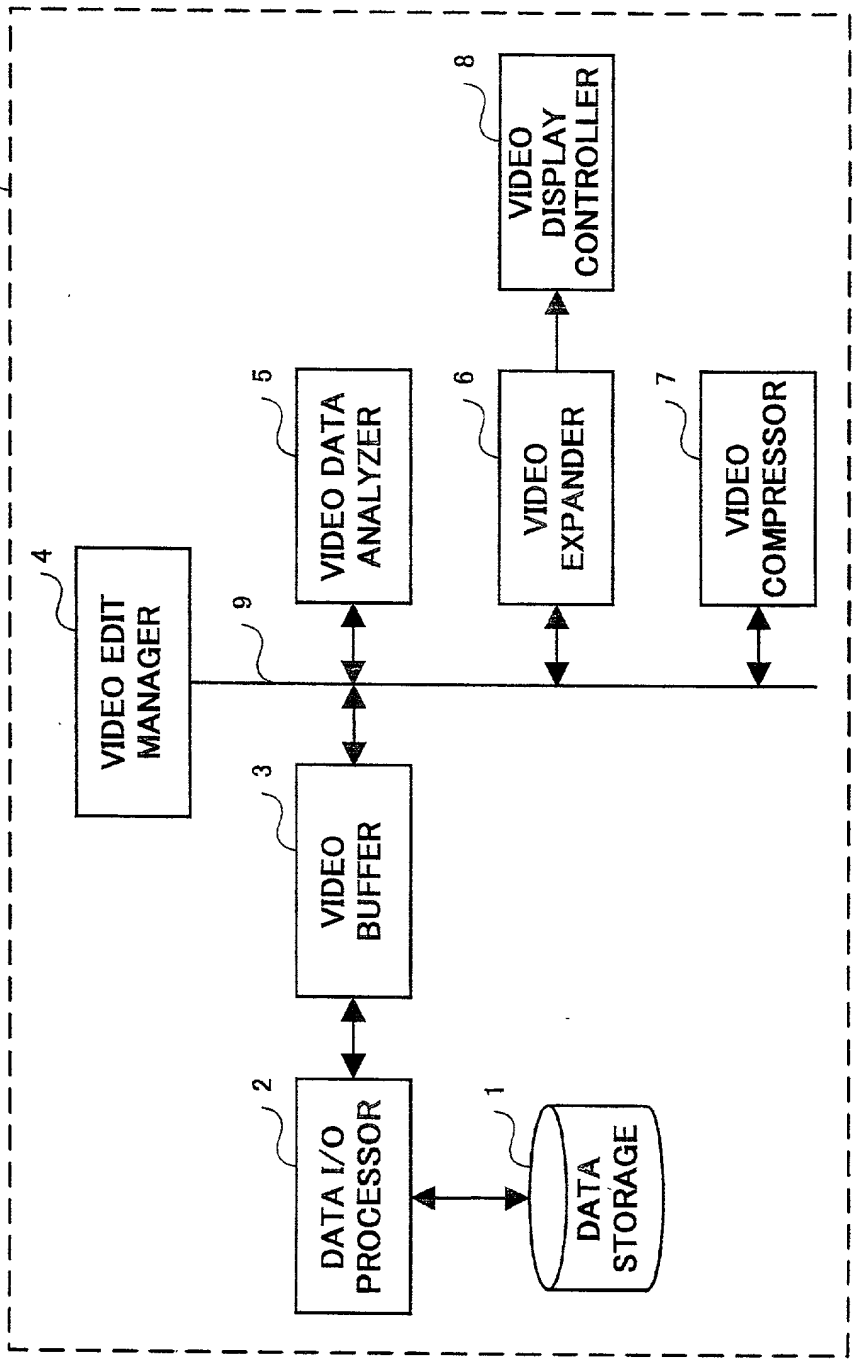

FIG.2

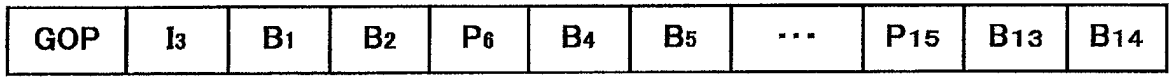

FIG.3A

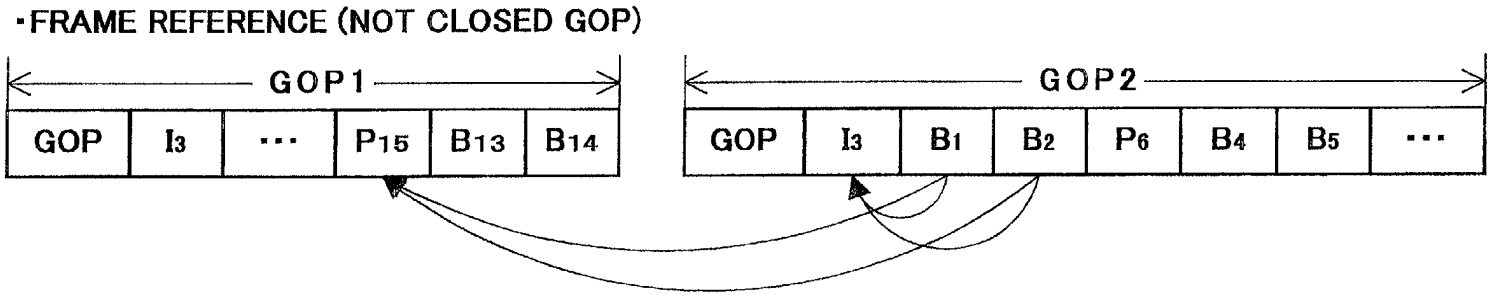

FIG.3B

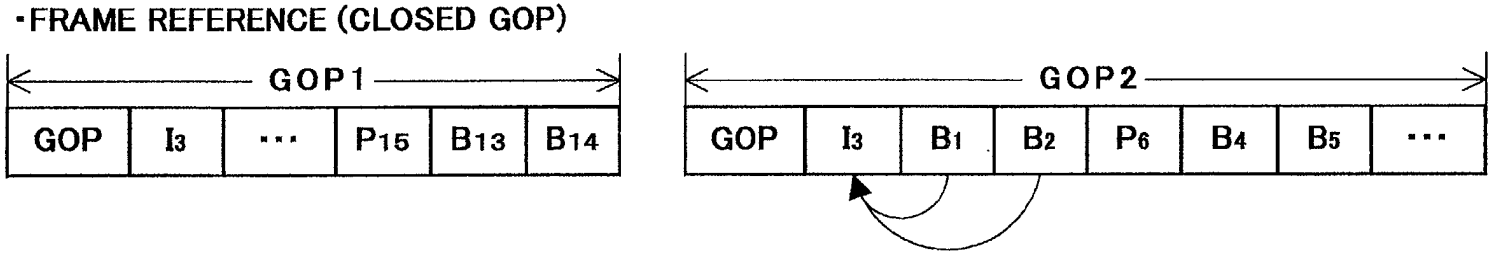

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FIG.4

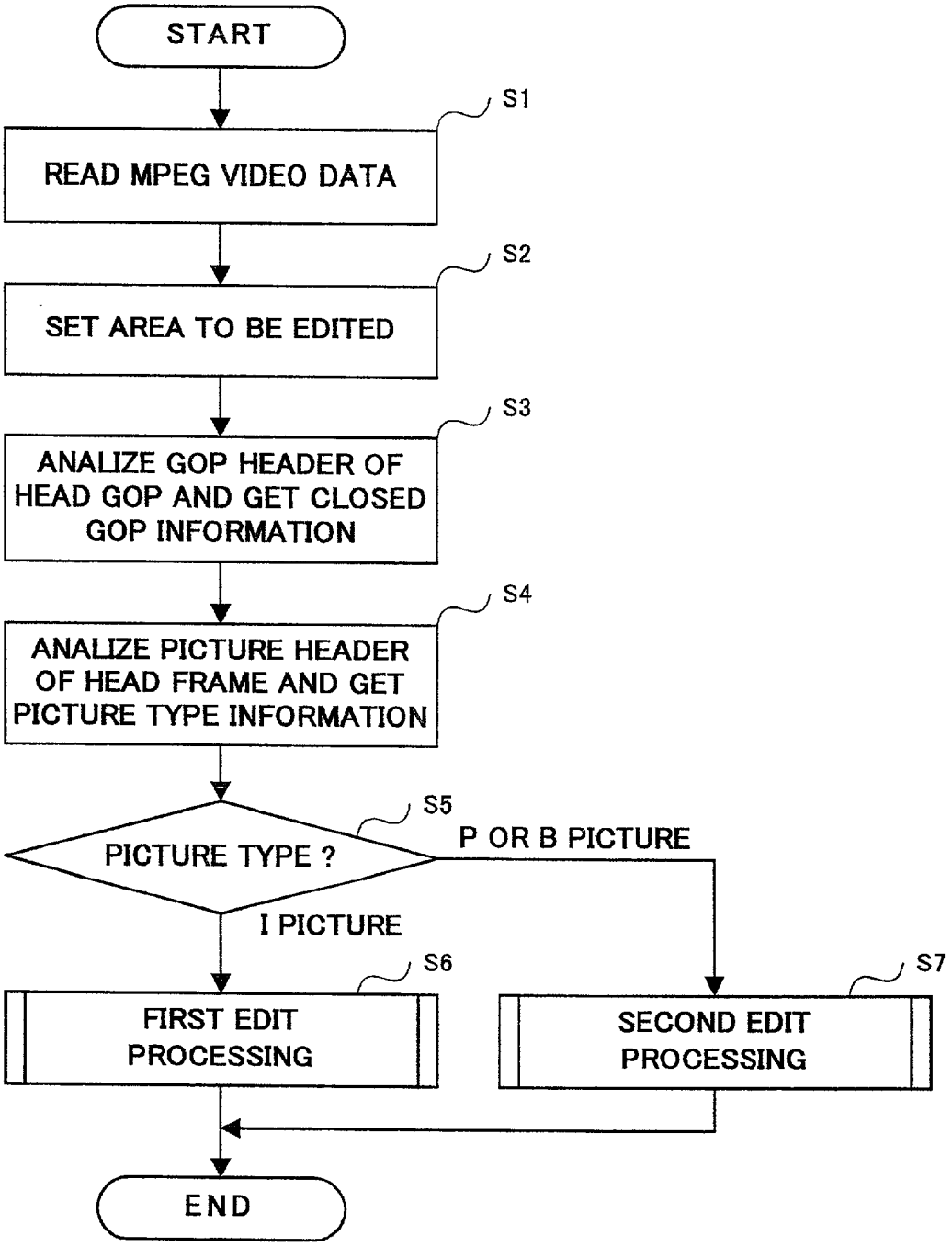
START
S1
READ MPEG VIDEO DATA
S2
SET AREA TO BE EDITED
S3
ANALIZE GOP HEADER OF HEAD GOP AND GET CLOSED GOP INFORMATION
S4
ANALIZE PICTURE HEADER OF HEAD FRAME AND GET PICTURE TYPE INFORMATION
S5
PICTURE TYPE ?
P OR B PICTURE
I PICTURE
S6
FIRST EDIT PROCESSING
S7
SECOND EDIT PROCESSING
END

FIG. 5

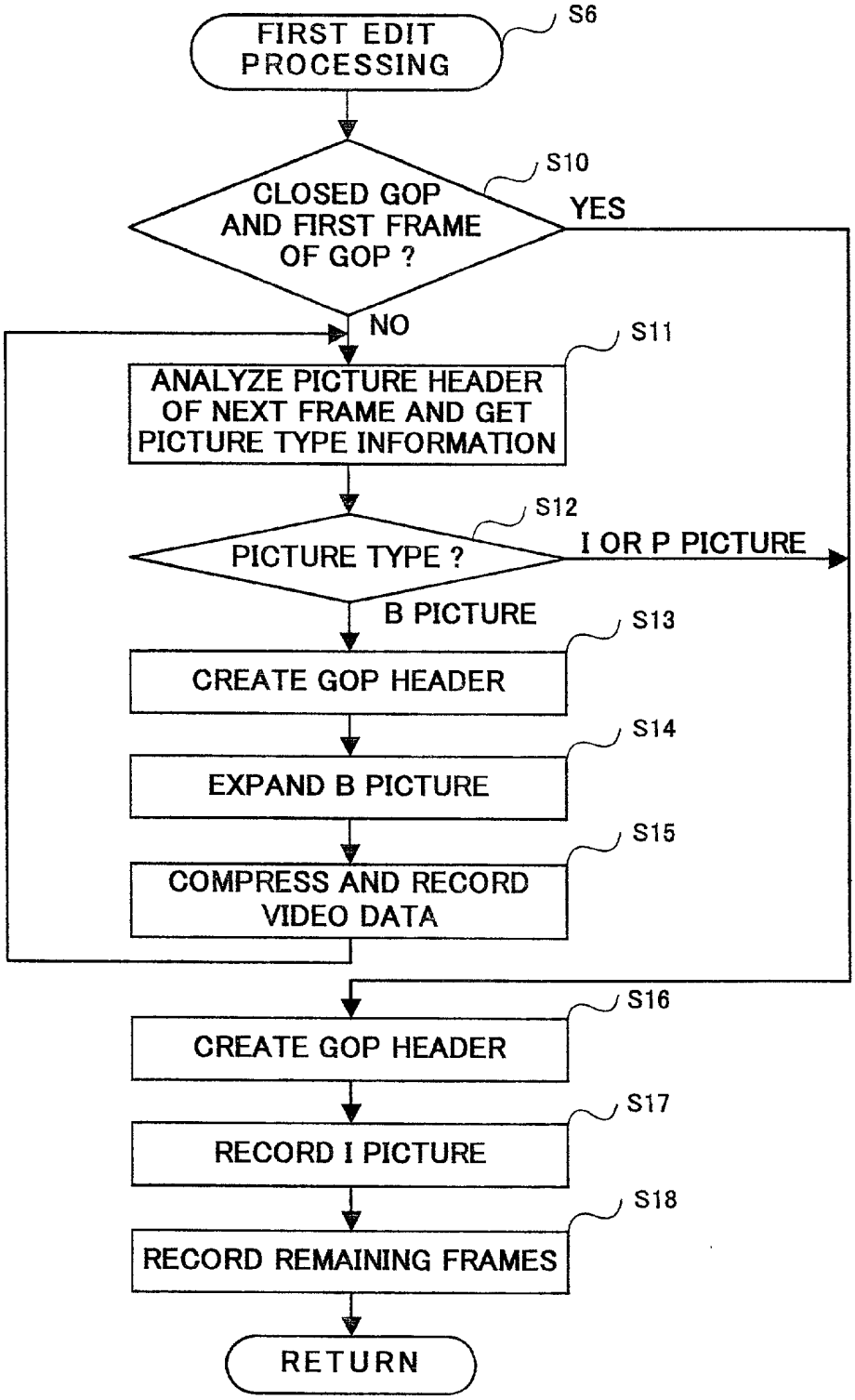

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FIG.6A

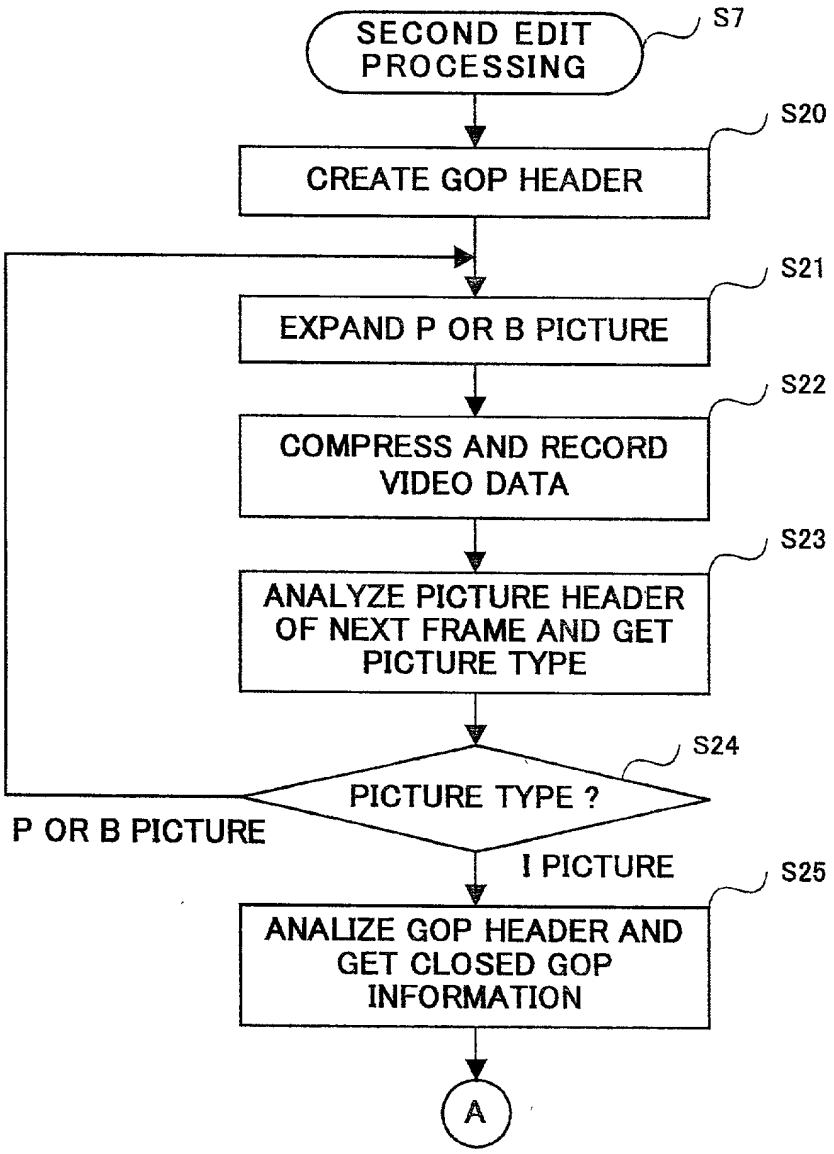
SECOND EDIT PROCESSING
S7
CREATE GOP HEADER
S20
EXPAND P OR B PICTURE
S21
COMPRESS AND RECORD VIDEO DATA
S22
ANALYZE PICTURE HEADER OF NEXT FRAME AND GET PICTURE TYPE
S23
PICTURE TYPE ?
S24
P OR B PICTURE
I PICTURE
ANALIZE GOP HEADER AND GET CLOSED GOP INFORMATION
S25
A

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FIG.6B

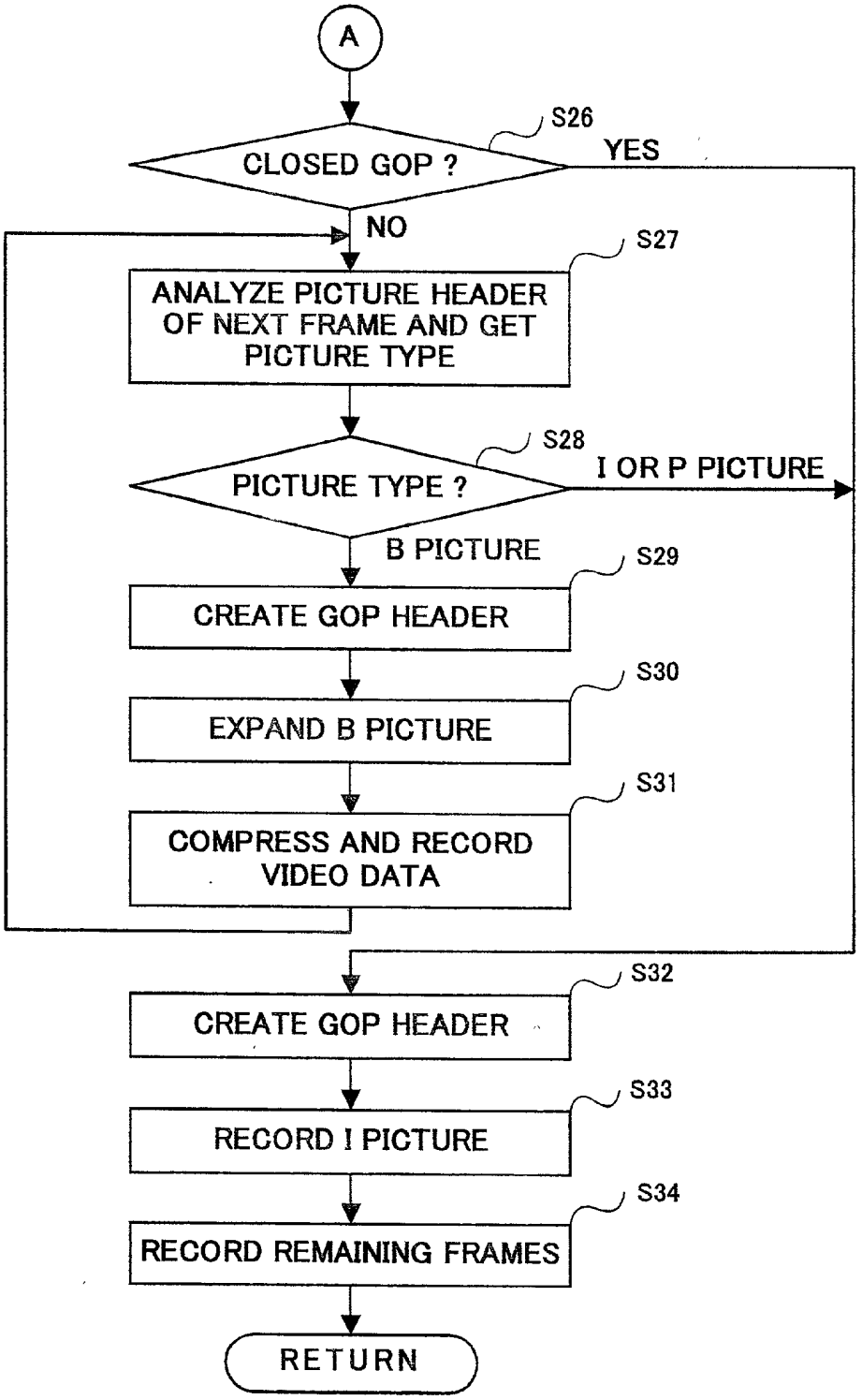

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FIG. 7

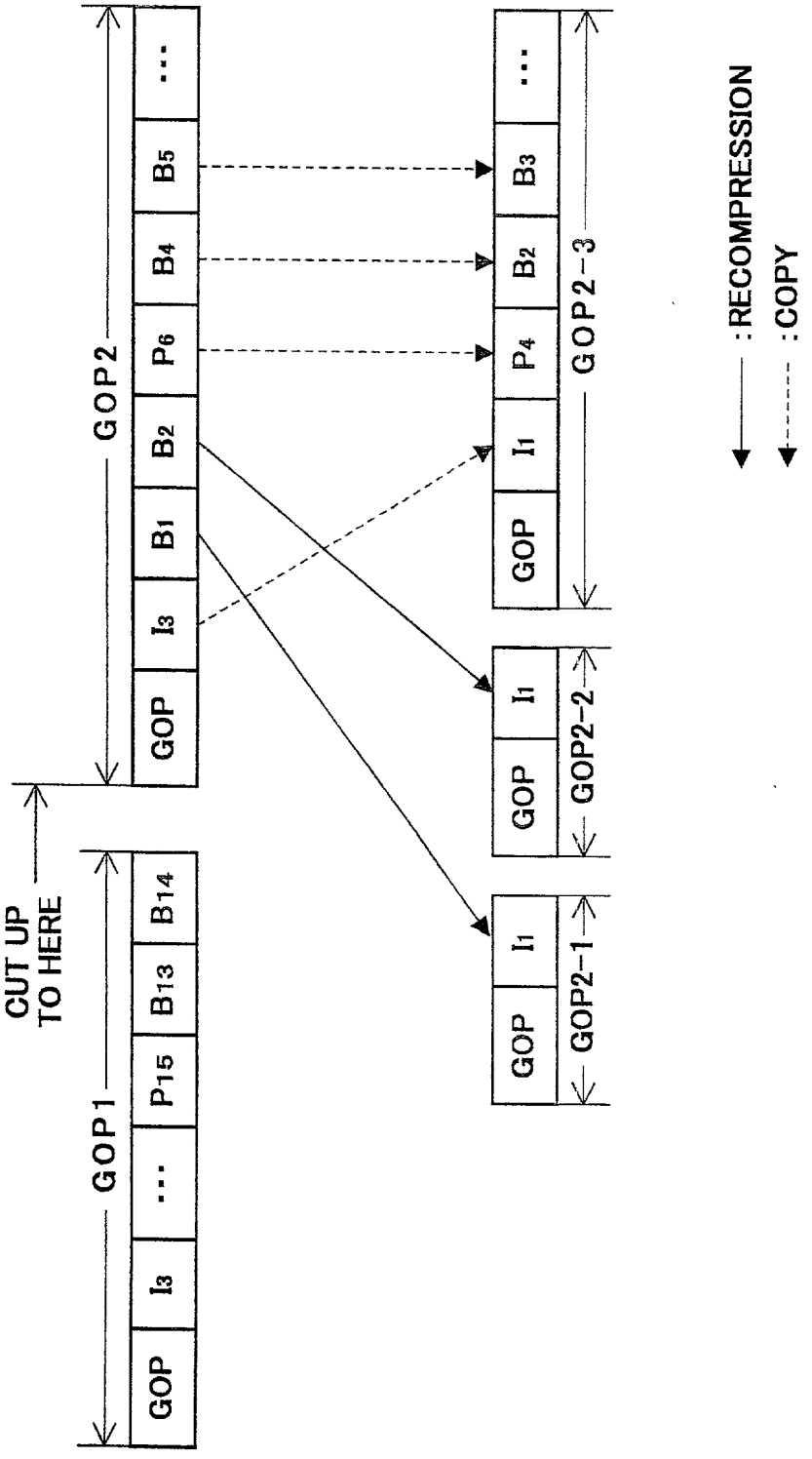

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FIG.8

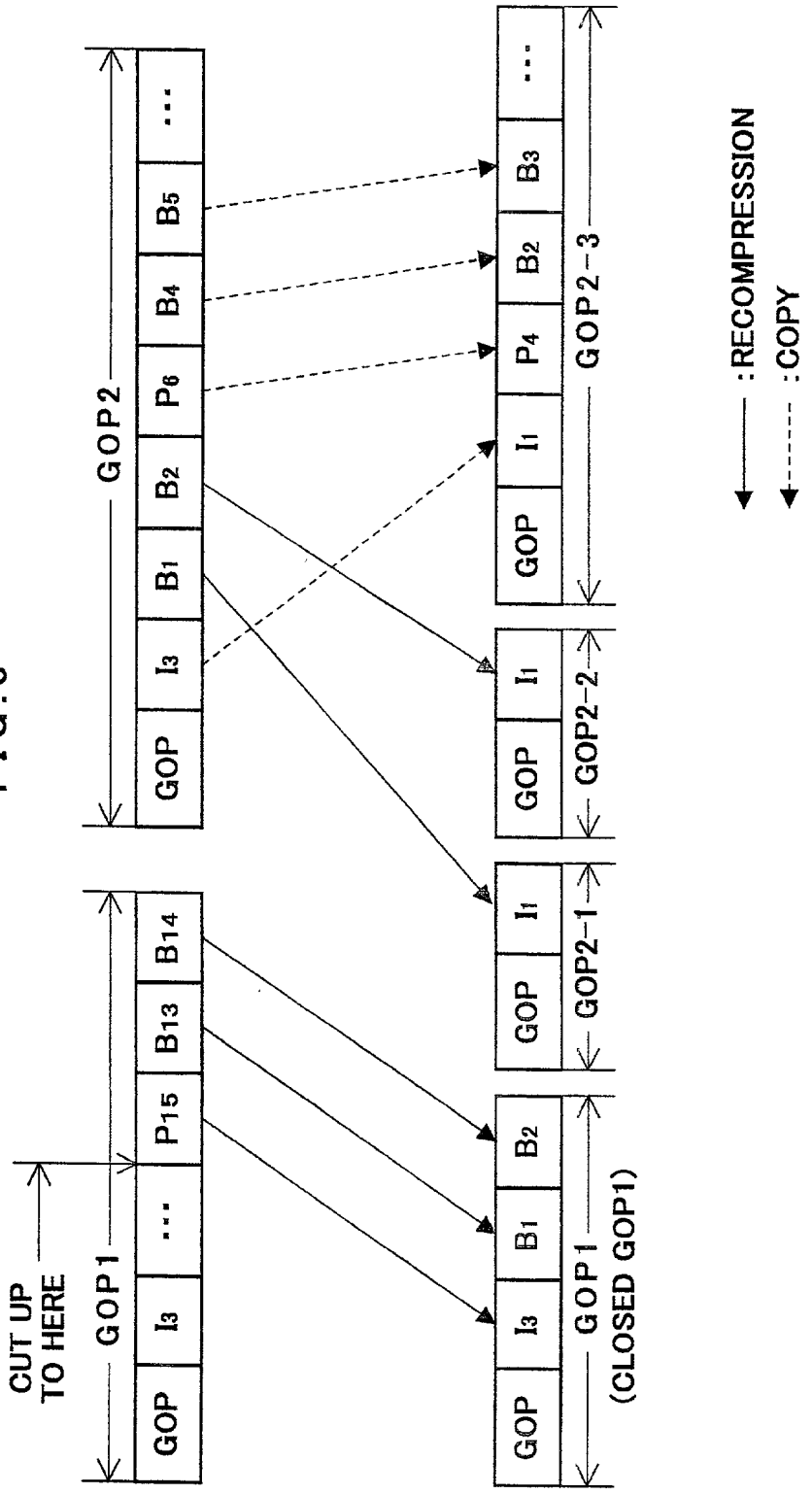

FIG.9

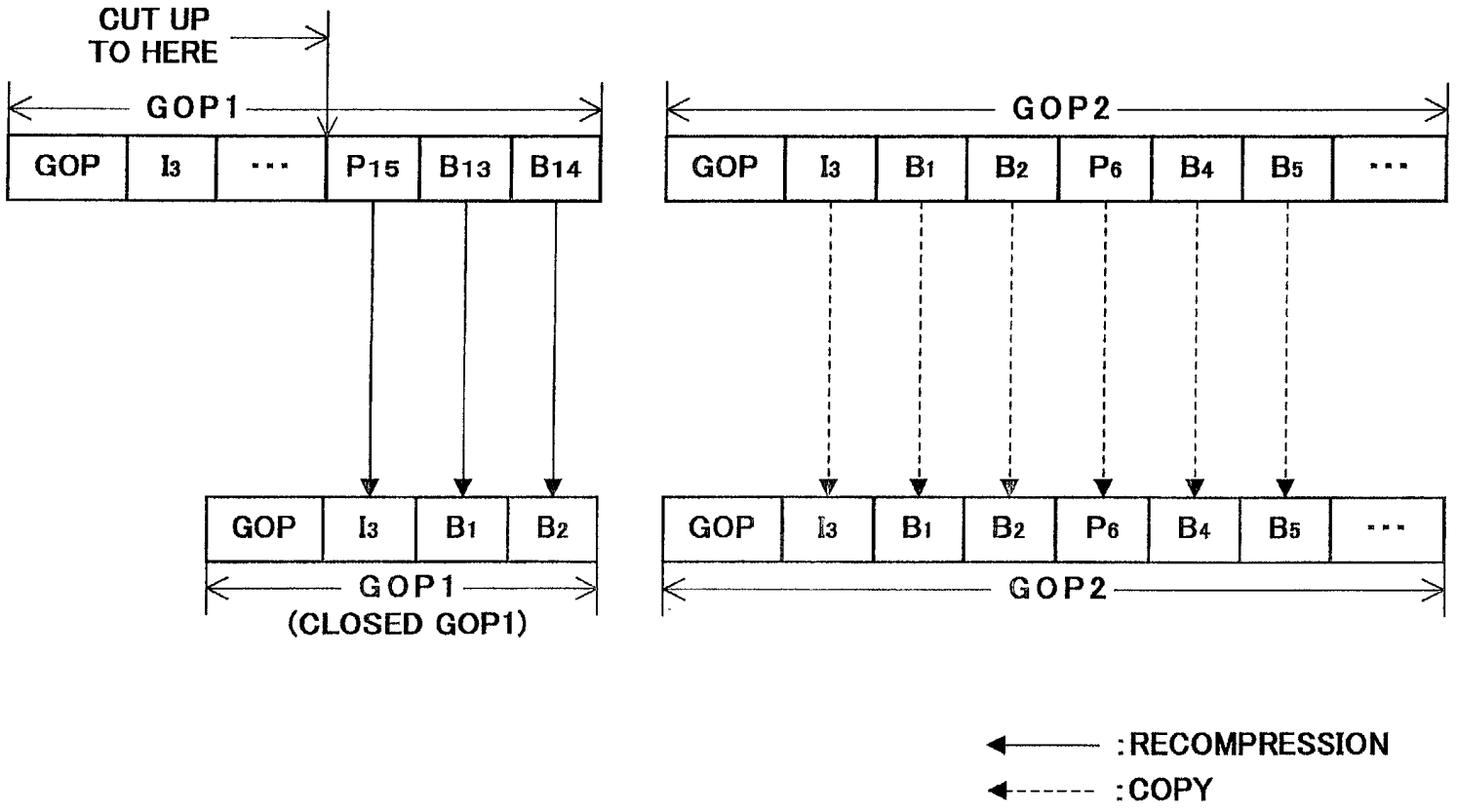
CUT UP
TO HERE
GOP1
GOP
I3
···
P15
B13
B14
GOP2
GOP
I3
B1
B2
P6
B4
B5
···
GOP
I3
B1
B2
GOP1
(CLOSED GOP1)
GOP
I3
B1
B2
P6
B4
B5
···
GOP2
:RECOMPRESSION
:COPY

FIG.10A

■ CASE1 : DELETE FRONT PORTION OF DATA

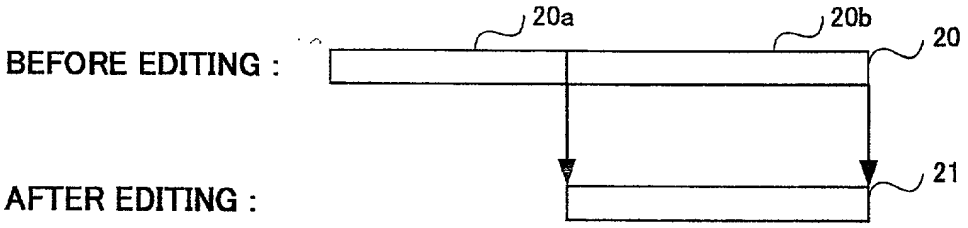

FIG.10B

■ CASE2 : DELETE TAIL PORTION OF DATA

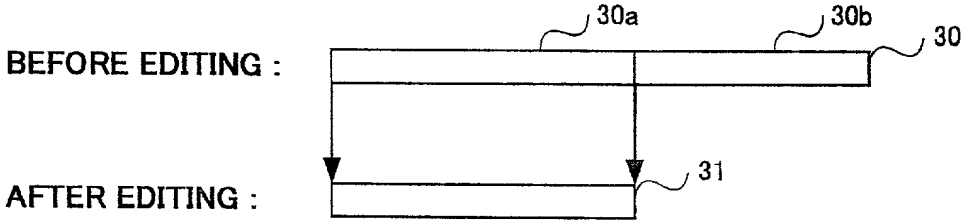

FIG.10C

■ CASE3 : DELETE MIDDLE PORTION OF DATA

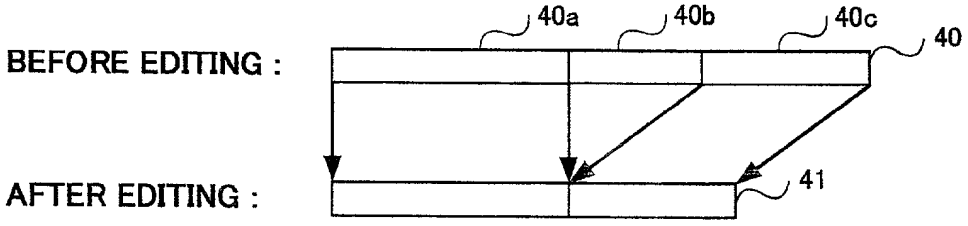

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FIG.10D

■ CASE4 : DELETE FRONT AND TAIL PORTIONS OF DATA

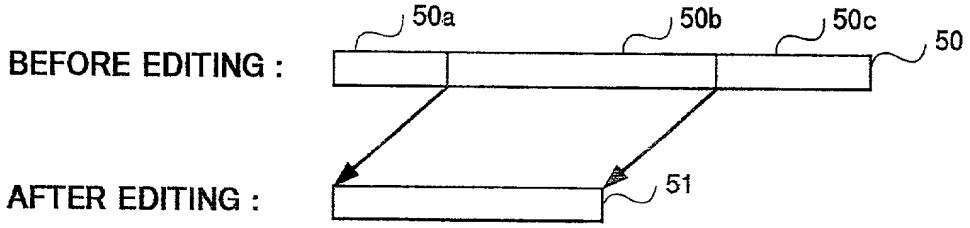

FIG.10E

■ CASE5 : CONCATENATE DATA A AND DATA B

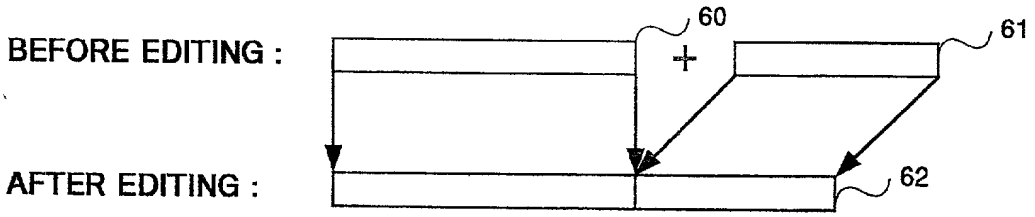

FIG.10F

■ CASE6 : INSERT DATA B INTO DATA A

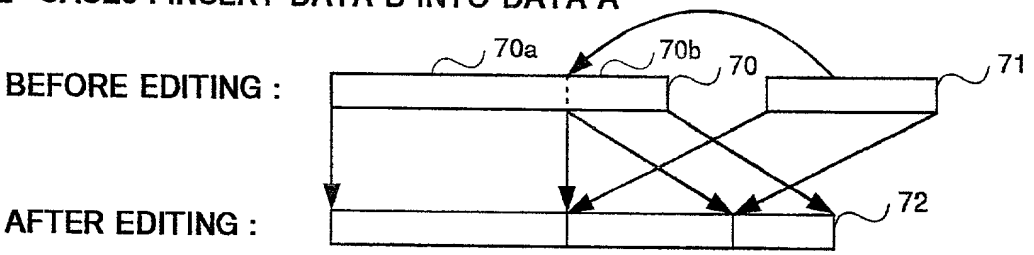

FIG.11

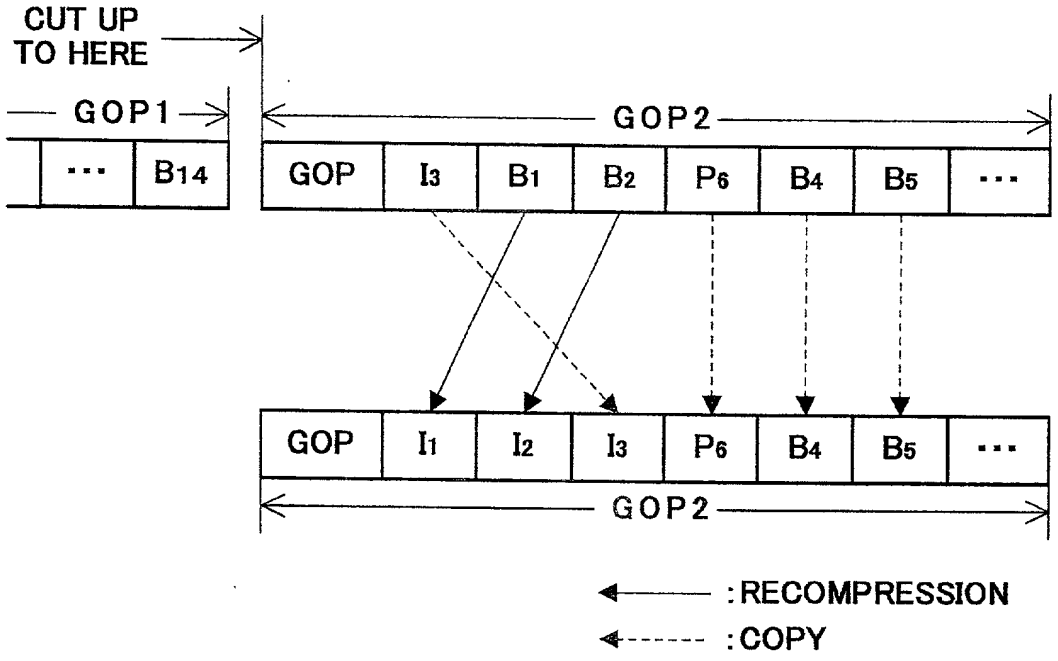

FIG.12

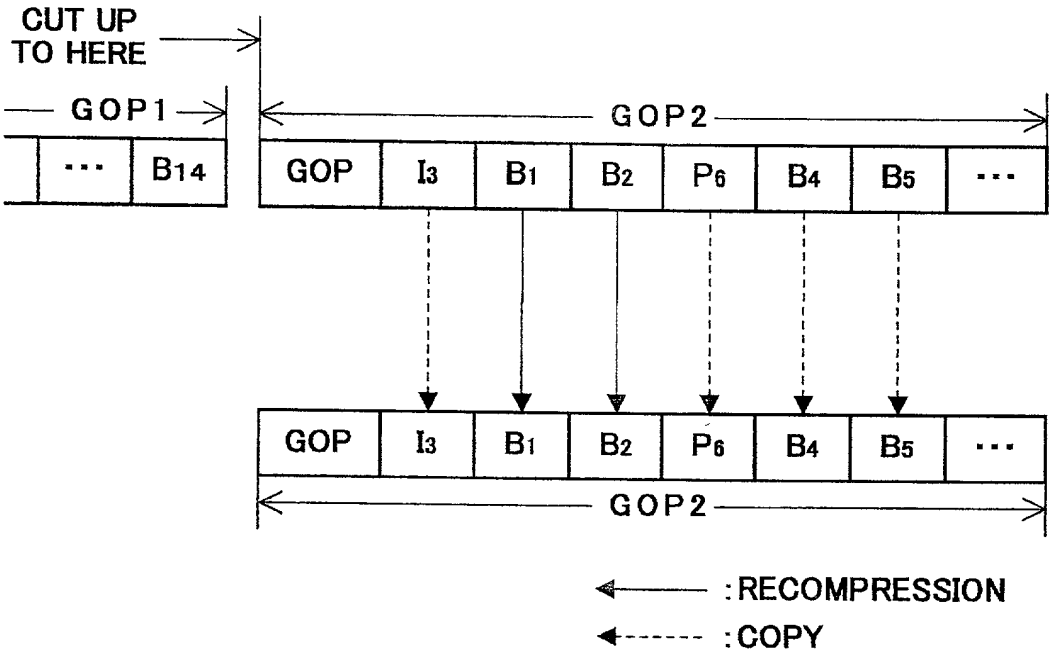

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FIG. 13

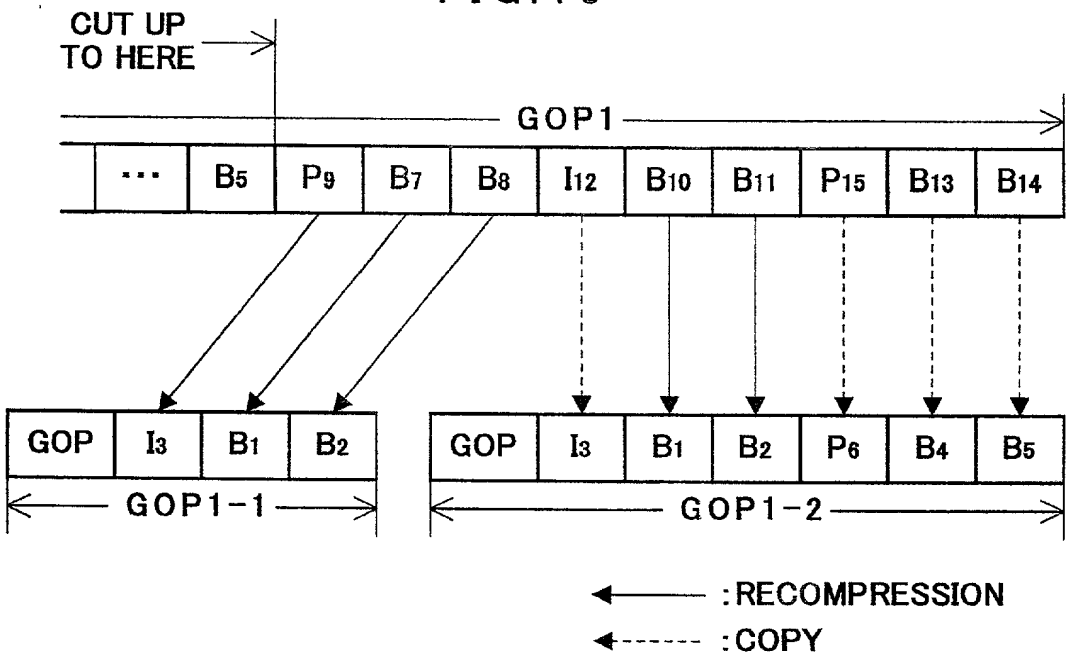
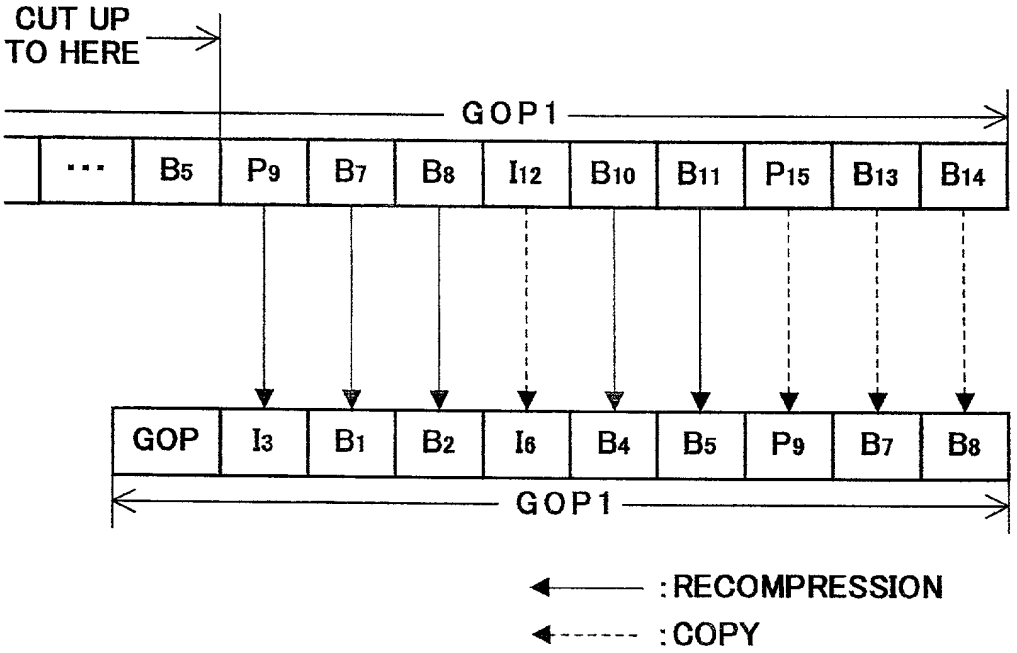

CUT UP
TO HERE
GOP1
...
B5
P9
B7
B8
I12
B10
B11
P15
B13
B14
GOP
I3
B1
B2
GOP1-1
GOP
I3
B1
B2
P6
B4
B5
GOP1-2
:RECOMPRESSION
:COPY

FIG. 14


CUT UP
TO HERE
GOP1
...
B5
P9
B7
B8
I12
B10
B11
P15
B13
B14
GOP
I3
B1
B2
I6
B4
B5
P9
B7
B8
GOP1
:RECOMPRESSION
:COPY